

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run On: June 7, 2005, 09:53:33 ; Search time 30.0205 Seconds
(without alignments)
1367.836 Million cell updates/sec

Title: US-10-791-619-12

Perfect score: 625

Sequence: 1 EVQLVESGGGLVQPGGSLRL.....YCARSHYFGHHFAVWGQG 114

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1599520 seqs, 360203123 residues

Total number of hits satisfying chosen parameters: 1599520

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
19: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
20: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep.*
21: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	625	100.0	114	9	US-09-920-171-12
2	625	100.0	114	14	US-10-113-996-12
3	625	100.0	114	16	US-10-791-619-12
4	625	100.0	229	9	US-09-920-171-20
5	625	100.0	229	14	US-10-113-996-20
6	625	100.0	229	16	US-10-791-619-20
7	625	100.0	233	9	US-09-920-171-25
8	625	100.0	233	14	US-10-113-996-25
9	625	100.0	233	16	US-10-791-619-25
10	625	100.0	248	9	US-09-920-171-22
11	625	100.0	248	14	US-10-113-996-22
12	625	100.0	248	16	US-10-791-619-22

13	625	100.0	451	9	US-09-920-171-14	Sequence 14, Appl
14	625	100.0	451	9	US-09-920-171-16	Sequence 16, Appl
15	625	100.0	451	10	US-09-925-179-65	Sequence 65, Appl
16	625	100.0	451	14	US-10-113-996-14	Sequence 14, Appl
17	625	100.0	451	14	US-10-113-996-16	Sequence 16, Appl
18	625	100.0	451	16	US-10-813-483-4	Sequence 4, Appl
19	625	100.0	451	16	US-10-813-483-5	Sequence 5, Appl
20	625	100.0	451	16	US-10-791-619-14	Sequence 14, Appl
21	625	100.0	451	16	US-10-791-619-16	Sequence 16, Appl
22	625	100.0	669	16	US-10-784-428-21	Sequence 21, Appl
23	622	99.5	451	10	US-09-925-179-66	Sequence 66, Appl
24	605	96.8	121	9	US-09-920-171-3	Sequence 3, Appl
25	605	96.8	121	14	US-10-113-996-3	Sequence 3, Appl
26	605	96.8	121	16	US-10-791-619-3	Sequence 3, Appl
27	605	96.8	453	9	US-09-802-077-8	Sequence 8, Appl
28	605	96.8	453	9	US-09-802-096-8	Sequence 8, Appl
29	605	96.8	453	10	US-09-925-179-8	Sequence 8, Appl
30	603	96.5	114	9	US-09-920-171-11	Sequence 11, Appl
31	603	96.5	114	14	US-10-113-996-11	Sequence 11, Appl
32	603	96.5	114	16	US-10-791-619-11	Sequence 11, Appl
33	603	96.5	229	9	US-09-920-171-21	Sequence 21, Appl
34	603	96.5	229	14	US-10-113-996-21	Sequence 21, Appl
35	603	96.5	229	16	US-10-791-619-21	Sequence 21, Appl
36	603	96.5	233	9	US-09-920-171-26	Sequence 26, Appl
37	603	96.5	233	14	US-10-113-996-26	Sequence 26, Appl
38	603	96.5	233	16	US-10-791-619-26	Sequence 26, Appl
39	603	96.5	248	9	US-09-920-171-23	Sequence 23, Appl
40	603	96.5	248	14	US-10-113-996-23	Sequence 23, Appl
41	603	96.5	248	16	US-10-791-619-23	Sequence 23, Appl
42	603	96.5	451	9	US-09-920-171-18	Sequence 18, Appl
43	603	96.5	451	10	US-09-792-938-2	Sequence 2, Appl
44	603	96.5	451	14	US-10-113-996-18	Sequence 18, Appl
45	603	96.5	451	14	US-10-232-869-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-09-920-171-12
; Sequence 12, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/09/920, 171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 12
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-09-920-171-12

Query Match 100.0%; Score 625; DB 9; Length 114;
Best Local Similarity 100.0%; Pred. No. 4.6e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 EVQLVESGGGLVQPGGSLRLSCAVSGYITSGYSNNWIRQAFGKLEWVASITDGSTNY 60
Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYITSGYSNNWIRQAFGKLEWVASITDGSTNY 60
QY 61 NPSVKGRITISRDDSKNTFYIQMNSLRADTAVYYCARSGSHYFGHHFAVWGQG 114

Db 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYVCARGSHYFGHHFAVWGQ 114
|||||

RESULT 2

US-10-113-996-12
; Sequence 12, Application US/10113996
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies
; FILE REFERENCE: P1123C3US
; CURRENT APPLICATION NUMBER: US/10/113,996
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 12
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-10-113-996-12

Query Match 100.0%; Score 625; DB 14; Length 114;
Best Local Similarity 100.0%; Pred. No. 4.6e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASITYDGSINY 60
Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASITYDGSINY 60
|||||

Qy 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYVCARGSHYFGHHFAVWGQ 114
Db 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYVCARGSHYFGHHFAVWGQ 114
|||||

RESULT 3

US-10-791-619-12
; Sequence 12, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 12
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: Artificial
; LOCATION: 1-114
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-10-791-619-12

Query Match 100.0%; Score 625; DB 16; Length 114;
Best Local Similarity 100.0%; Pred. No. 4.6e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASITYDGSINY 60
Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASITYDGSINY 60
|||||

Qy 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYVCARGSHYFGHHFAVWGQ 114
Db 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYVCARGSHYFGHHFAVWGQ 114
|||||

RESULT 4

US-09-920-171-20
; Sequence 20, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 20
; LENGTH: 229
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain F(ab) sequence derived from MAE11
US-09-920-171-20

Query Match 100.0%; Score 625; DB 9; Length 229;
Best Local Similarity 100.0%; Pred. No. 9.7e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASITYDGSINY 60
Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASITYDGSINY 60
|||||

Qy 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYVCARGSHYFGHHFAVWGQ 114
Db 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYVCARGSHYFGHHFAVWGQ 114
|||||

RESULT 5

US-10-113-996-20
; Sequence 20, Application US/10113996
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies
; FILE REFERENCE: P1123C3US
; CURRENT APPLICATION NUMBER: US/10/113,996
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 20
; LENGTH: 229
; TYPE: PRT
; ORGANISM: Artificial Sequence

```
; FEATURE:
; OTHER INFORMATION: Heavy chain F(ab) sequence derived from MAE11
US-10-113-996-20

Query Match      100.0%; Score 625; DB 14; Length 229;
Best Local Similarity 100.0%; Pred. No. 9.7e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EVLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASITYDGSTNY 60
   |||||
Db 1 EVLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASITYDGSTNY 60
   |||||

QY 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHWHFAVWGQ 114
   |||||
Db 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHWHFAVWGQ 114
   |||||

RESULT 6
US-10-791-619-20
; Sequence 20, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 20
; LENGTH: 229
; TYPE: PRT
; ORGANISM: Artificial
; NAME/KEY: Artificial
; LOCATION: 1-229
; OTHER INFORMATION: Heavy chain F(ab) sequence derived from MAE11
US-10-791-619-20

Query Match      100.0%; Score 625; DB 16; Length 229;
Best Local Similarity 100.0%; Pred. No. 9.7e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EVLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASITYDGSTNY 60
   |||||
Db 1 EVLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASITYDGSTNY 60
   |||||

QY 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHWHFAVWGQ 114
   |||||
Db 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHWHFAVWGQ 114
   |||||

RESULT 7
US-09-920-171-25
; Sequence 25, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
```

```
; SEQ ID NO 25
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain F(ab)'2 sequence derived from MAE11
US-09-920-171-25

Query Match      100.0%; Score 625; DB 9; Length 233;
Best Local Similarity 100.0%; Pred. No. 9.9e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EVLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASITYDGSTNY 60
   |||||
Db 1 EVLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASITYDGSTNY 60
   |||||

QY 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHWHFAVWGQ 114
   |||||
Db 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHWHFAVWGQ 114
   |||||

RESULT 8
US-10-113-996-25
; Sequence 25, Application US/10113996
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies
; FILE REFERENCE: P1123C3US
; CURRENT APPLICATION NUMBER: US/10/113,996
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 25
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain F(ab)'2 sequence derived from MAE11
US-10-113-996-25

Query Match      100.0%; Score 625; DB 14; Length 233;
Best Local Similarity 100.0%; Pred. No. 9.9e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EVLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASITYDGSTNY 60
   |||||
Db 1 EVLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASITYDGSTNY 60
   |||||

QY 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHWHFAVWGQ 114
   |||||
Db 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHWHFAVWGQ 114
   |||||

RESULT 9
US-10-791-619-25
; Sequence 25, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
```

```
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 25
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Artificial
; NAME/KEY: Artificial sequence
; LOCATION: 1-233
; OTHER INFORMATION: Heavy chain F(ab)'2 sequence derived from MAE11
US-10-791-619-25

Query Match      100.0%; Score 625; DB 16; Length 233;
Best Local Similarity 100.0%; Pred. No. 9.9e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASITYDGSINY 60
Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASITYDGSINY 60

Qy 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYYCARGSHYFGHHFPAVWGQ 114
Db 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYYCARGSHYFGHHFPAVWGQ 114

RESULT 10
US-09-920-171-22
; Sequence 22, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C3US
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 22
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; LOCATION: 1-248
; OTHER INFORMATION: sfv sequence derived from MAE11
US-09-920-171-22

Query Match      100.0%; Score 625; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 1.1e-50;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASITYDGSINY 60
Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASITYDGSINY 60

Qy 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYYCARGSHYFGHHFPAVWGQ 114
Db 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYYCARGSHYFGHHFPAVWGQ 114

RESULT 11
US-10-113-996-22
; Sequence 22, Application US/10113996
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
```

```
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies
; FILE REFERENCE: P1123C3US
; CURRENT APPLICATION NUMBER: US/10/113,996
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 22
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: sfv sequence derived from MAE11
US-10-113-996-22

Query Match      100.0%; Score 625; DB 14; Length 248;
Best Local Similarity 100.0%; Pred. No. 1.1e-50;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASITYDGSINY 60
Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASITYDGSINY 60

Qy 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYYCARGSHYFGHHFPAVWGQ 114
Db 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYYCARGSHYFGHHFPAVWGQ 114

RESULT 12
US-10-791-619-22
; Sequence 22, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 22
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: Artificial
; LOCATION: 1-248
; OTHER INFORMATION: sfv sequence derived from MAE11
US-10-791-619-22

Query Match      100.0%; Score 625; DB 16; Length 248;
Best Local Similarity 100.0%; Pred. No. 1.1e-50;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASITYDGSINY 60
Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASITYDGSINY 60

Qy 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYYCARGSHYFGHHFPAVWGQ 114
Db 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYYCARGSHYFGHHFPAVWGQ 114

RESULT 13
```

US-09-920-171-14
; Sequence 14, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 14
; LENGTH: 451
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-09-920-171-14

Query Match 100.0%; Score 625; DB 9; Length 451;
Best Local Similarity 100.0%; Pred. No. 2e-50; Indels 0; Gaps 0;
Matches 114; Conservative 0; Mismatches 0;
QY 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASITYDGSTNY 60
DB 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASITYDGSTNY 60
QY 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHWHFAVWGQG 114
DB 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHWHFAVWGQG 114

RESULT 14
US-09-920-171-16
; Sequence 16, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 16
; LENGTH: 451
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-09-920-171-16

Query Match 100.0%; Score 625; DB 9; Length 451;
Best Local Similarity 100.0%; Pred. No. 2e-50; Indels 0; Gaps 0;
Matches 114; Conservative 0; Mismatches 0;
QY 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASITYDGSTNY 60
DB 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASITYDGSTNY 60
QY 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHWHFAVWGQG 114

DB 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHWHFAVWGQG 114
RESULT 15
US-09-925-179-65
; Sequence 65, Application US/09925179
; Publication No. US20030044858A1
; GENERAL INFORMATION:
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Presta, Leonard G.
; TITLE OF INVENTION: Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P0718P2C1D1C1US
; CURRENT APPLICATION NUMBER: US/09/925,179
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 08/466,163
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: US 08/405,617
; PRIOR FILING DATE: 1995-03-15
; PRIOR APPLICATION NUMBER: US 08/185,899
; PRIOR FILING DATE: 1994-01-26
; PRIOR APPLICATION NUMBER: PCT/US92/06860
; PRIOR FILING DATE: 1992-08-14
; PRIOR APPLICATION NUMBER: US 07/879,495
; PRIOR FILING DATE: 1992-05-07
; PRIOR APPLICATION NUMBER: US 07/744,768
; PRIOR FILING DATE: 1991-08-14
; NUMBER OF SEQ ID NOS: 68
; SEQ ID NO 65
; LENGTH: 451
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Full-length heavy chain sequence corresponding to F(ab)8b of Table
US-09-925-179-65

Query Match 100.0%; Score 625; DB 10; Length 451;
Best Local Similarity 100.0%; Pred. No. 2e-50; Indels 0; Gaps 0;
Matches 114; Conservative 0; Mismatches 0;
QY 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASITYDGSTNY 60
DB 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASITYDGSTNY 60
QY 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHWHFAVWGQG 114
DB 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHWHFAVWGQG 114

Search completed: June 7, 2005, 10:16:26
Job time : 30.0205 secs

This Page Blank (uspto)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: June 7, 2005, 09:53:33 ; Search time 30.0205 Seconds
(without alignments)
1367.836 Million cell updates/sec

Title: US-10-791-619-11

Perfect score: 623

Sequence: 1 EVQLVESGGGLVQPGGSLRL.....YCARGSHYFGHHFAVWGQG 114

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1599520 seqs, 360203123 residues

Total number of hits satisfying chosen parameters: 1599520

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US11A_PUBCOMB.pep.*
- 19: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep.*
- 20: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 21: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	623	100.0	114	9	US-09-920-171-11
2	623	100.0	114	14	US-10-113-996-11
3	623	100.0	114	16	US-10-791-619-11
4	623	100.0	229	9	US-09-920-171-21
5	623	100.0	229	14	US-10-113-996-21
6	623	100.0	229	16	US-10-791-619-21
7	623	100.0	233	9	US-09-920-171-26
8	623	100.0	233	14	US-10-113-996-26
9	623	100.0	233	16	US-10-791-619-26
10	623	100.0	248	9	US-09-920-171-23
11	623	100.0	248	14	US-10-113-996-23
12	623	100.0	248	16	US-10-791-619-23

13	623	100.0	451	9	US-09-920-171-18	Sequence 18, Appl
14	623	100.0	451	10	US-09-792-938-2	Sequence 2, Appl
15	623	100.0	451	14	US-10-113-996-18	Sequence 18, Appl
16	623	100.0	451	14	US-10-292-869-2	Sequence 2, Appl
17	623	100.0	451	16	US-10-835-642-2	Sequence 2, Appl
18	623	100.0	451	16	US-10-757-863-2	Sequence 2, Appl
19	623	100.0	451	16	US-10-791-619-18	Sequence 18, Appl
20	603	96.8	114	9	US-09-920-171-12	Sequence 12, Appl
21	603	96.8	114	14	US-10-113-996-12	Sequence 12, Appl
22	603	96.8	114	16	US-10-791-619-12	Sequence 12, Appl
23	603	96.8	229	9	US-09-920-171-20	Sequence 20, Appl
24	603	96.8	229	14	US-10-113-996-20	Sequence 20, Appl
25	603	96.8	229	16	US-10-791-619-20	Sequence 20, Appl
26	603	96.8	233	9	US-09-920-171-25	Sequence 25, Appl
27	603	96.8	233	14	US-10-113-996-25	Sequence 25, Appl
28	603	96.8	233	16	US-10-791-619-25	Sequence 25, Appl
29	603	96.8	248	9	US-09-920-171-22	Sequence 22, Appl
30	603	96.8	248	14	US-10-113-996-22	Sequence 22, Appl
31	603	96.8	248	16	US-10-791-619-22	Sequence 22, Appl
32	603	96.8	451	9	US-09-920-171-14	Sequence 14, Appl
33	603	96.8	451	10	US-09-920-171-16	Sequence 16, Appl
34	603	96.8	451	10	US-09-925-179-65	Sequence 65, Appl
35	603	96.8	451	14	US-10-113-996-14	Sequence 14, Appl
36	603	96.8	451	14	US-10-113-996-16	Sequence 16, Appl
37	603	96.8	451	16	US-10-813-483-4	Sequence 4, Appl
38	603	96.8	451	16	US-10-813-483-5	Sequence 5, Appl
39	603	96.8	451	16	US-10-791-619-14	Sequence 14, Appl
40	603	96.8	451	16	US-10-791-619-16	Sequence 16, Appl
41	603	96.8	669	16	US-10-764-428-21	Sequence 21, Appl
42	600	96.3	451	10	US-09-925-179-66	Sequence 66, Appl
43	583	93.6	121	9	US-09-920-171-3	Sequence 3, Appl
44	583	93.6	121	14	US-10-113-996-3	Sequence 3, Appl
45	583	93.6	121	16	US-10-791-619-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-09-920-171-11
; Sequence 11, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IGE Antibodies (as amended)
; FILE REFERENCE: P1123CZUS
; CURRENT APPLICATION NUMBER: US/09/920,171
; PRIORITY FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 11
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain sequence derived from MAb11
US-09-920-171-11

Query Match 100.0%; Score 623; DB 9; Length 114;
Best Local Similarity 100.0%; Pred. No. 2e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 EVQLVESGGGLVQPGGSLRLCAVSGYSITSGYSNNIRQAPGKLEWVASIKYSGETKY 60
Db 1 EVQLVESGGGLVQPGGSLRLCAVSGYSITSGYSNNIRQAPGKLEWVASIKYSGETKY 60
QY 61 NPSVKGRITISRDDSKNTFYIQMNSLRADTVVYCARGSHYFGHHFAVWGQG 114

Db 61 NPSVKGRTISRDDSKNTFYLMNSLRAEDTAVVYCARGSHYFGHHFAVWGQ 114
|||||

RESULT 2

US-10-113-996-11
; Sequence 11, Application US/10113996
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; FILE OF INVENTION: Improved Anti-IgE Antibodies
; FILE REFERENCE: P1123C3US
; CURRENT APPLICATION NUMBER: US/10/113,996
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 11
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-10-113-996-11

Query Match 100.0%; Score 623; DB 14; Length 114;
Best Local Similarity 100.0%; Pred. No. 2e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASIKYSGETKY 60
Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASIKYSGETKY 60
|||||

Qy 61 NPSVKGRTISRDDSKNTFYLMNSLRAEDTAVVYCARGSHYFGHHFAVWGQ 114
Db 61 NPSVKGRTISRDDSKNTFYLMNSLRAEDTAVVYCARGSHYFGHHFAVWGQ 114
|||||

RESULT 3

US-10-791-619-11
; Sequence 11, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 11
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial
; NAME/KEY: Artificial
; LOCATION: 1-114
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-10-791-619-11

Query Match 100.0%; Score 623; DB 16; Length 114;
Best Local Similarity 100.0%; Pred. No. 2e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASIKYSGETKY 60
Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASIKYSGETKY 60
|||||

Qy 61 NPSVKGRTISRDDSKNTFYLMNSLRAEDTAVVYCARGSHYFGHHFAVWGQ 114
Db 61 NPSVKGRTISRDDSKNTFYLMNSLRAEDTAVVYCARGSHYFGHHFAVWGQ 114
|||||

RESULT 4

US-09-920-171-21
; Sequence 21, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; FILE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 21
; LENGTH: 229
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain F(ab) derived from MAE11
US-09-920-171-21

Query Match 100.0%; Score 623; DB 9; Length 229;
Best Local Similarity 100.0%; Pred. No. 4.2e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASIKYSGETKY 60
Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVASIKYSGETKY 60
|||||

Qy 61 NPSVKGRTISRDDSKNTFYLMNSLRAEDTAVVYCARGSHYFGHHFAVWGQ 114
Db 61 NPSVKGRTISRDDSKNTFYLMNSLRAEDTAVVYCARGSHYFGHHFAVWGQ 114
|||||

RESULT 5

US-10-113-996-21
; Sequence 21, Application US/10113996
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; FILE OF INVENTION: Improved Anti-IgE Antibodies
; FILE REFERENCE: P1123C3US
; CURRENT APPLICATION NUMBER: US/10/113,996
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 21
; LENGTH: 229
; TYPE: PRT
; ORGANISM: Artificial Sequence


```
; FEATURE:
; OTHER INFORMATION: Heavy chain F(ab) derived from MAE11
US-10-113-996-21

Query Match      100.0%; Score 623; DB 14; Length 229;
Best Local Similarity 100.0%; Pred. No. 4.2e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EVLVESGGGLVQPGSRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASIKYSGETKY 60
DB 1 EVLVESGGGLVQPGSRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASIKYSGETKY 60

QY 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHHFAVWGQ 114
DB 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHHFAVWGQ 114

RESULT 6
US-10-791-619-21
; Sequence 21, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 21
; LENGTH: 229
; TYPE: PRT
; ORGANISM: Artificial
; NAME/KEY: Artificial
; LOCATION: 1-229
; OTHER INFORMATION: Heavy chain F(ab) derived from MAE11
US-10-791-619-21

Query Match      100.0%; Score 623; DB 16; Length 229;
Best Local Similarity 100.0%; Pred. No. 4.2e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EVLVESGGGLVQPGSRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASIKYSGETKY 60
DB 1 EVLVESGGGLVQPGSRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASIKYSGETKY 60

QY 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHHFAVWGQ 114
DB 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHHFAVWGQ 114

RESULT 7
US-09-920-171-26
; Sequence 26, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
```

```
; SEQ ID NO 26
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain F(ab)'2 sequence derived from MAE11
US-09-920-171-26

Query Match      100.0%; Score 623; DB 9; Length 233;
Best Local Similarity 100.0%; Pred. No. 4.3e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EVLVESGGGLVQPGSRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASIKYSGETKY 60
DB 1 EVLVESGGGLVQPGSRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASIKYSGETKY 60

QY 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHHFAVWGQ 114
DB 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHHFAVWGQ 114

RESULT 8
US-10-113-996-26
; Sequence 26, Application US/10113996
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies
; FILE REFERENCE: P1123C3US
; CURRENT APPLICATION NUMBER: US/10/113,996
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 26
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain F(ab)'2 sequence derived from MAE11
US-10-113-996-26

Query Match      100.0%; Score 623; DB 14; Length 233;
Best Local Similarity 100.0%; Pred. No. 4.3e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EVLVESGGGLVQPGSRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASIKYSGETKY 60
DB 1 EVLVESGGGLVQPGSRLSCAVSGYSITSGYSNNWIRQAPGKGLEWVASIKYSGETKY 60

QY 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHHFAVWGQ 114
DB 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAVYYCARGSHYFGHHFAVWGQ 114

RESULT 9
US-10-791-619-26
; Sequence 26, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
```

; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 26
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Artificial
; NAME/KEY: Artificial
; FEATURE:
; LOCATION: 1-233
; OTHER INFORMATION: Heavy chain F(ab)'2 sequence derived from MAE11
US-10-791-619-26

Query Match 100.0%; Score 623; DB 16; Length 233;
Best Local Similarity 100.0%; Pred. No. 4.3e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVWASIKYSGETKY 60
Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVWASIKYSGETKY 60
Qy 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYYCARGSHYFGHHFPAVMGQ 114
Db 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYYCARGSHYFGHHFPAVMGQ 114

RESULT 10

US-09-920-171-23
; Sequence 23, Application US/09920171
; Patent No. US2002005487A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 23
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: sfv sequence derived from MAE11
US-09-920-171-23

Query Match 100.0%; Score 623; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 4.6e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVWASIKYSGETKY 60
Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVWASIKYSGETKY 60
Qy 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYYCARGSHYFGHHFPAVMGQ 114
Db 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYYCARGSHYFGHHFPAVMGQ 114

RESULT 11

US-10-113-996-23
; Sequence 23, Application US/10113996
; Publication No. US2003014924A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.

; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies
; FILE REFERENCE: P1123C3US
; CURRENT APPLICATION NUMBER: US/10/113,996
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 23
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: sfv sequence derived from MAE11
US-10-113-996-23

Query Match 100.0%; Score 623; DB 14; Length 248;
Best Local Similarity 100.0%; Pred. No. 4.6e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVWASIKYSGETKY 60
Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVWASIKYSGETKY 60
Qy 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYYCARGSHYFGHHFPAVMGQ 114
Db 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYYCARGSHYFGHHFPAVMGQ 114

RESULT 12

US-10-791-619-23
; Sequence 23, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 23
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Artificial
; NAME/KEY: Artificial
; LOCATION: 1-248
; OTHER INFORMATION: sfv sequence derived from MAE11
US-10-791-619-23

Query Match 100.0%; Score 623; DB 16; Length 248;
Best Local Similarity 100.0%; Pred. No. 4.6e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVWASIKYSGETKY 60
Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIRQAPGKLEWVWASIKYSGETKY 60
Qy 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYYCARGSHYFGHHFPAVMGQ 114
Db 61 NPSVKGRITISRDDSKNTFYQMNSLRAEDTAVYYCARGSHYFGHHFPAVMGQ 114

RESULT 13

US-09-920-171-18
; Sequence 18, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 18
; LENGTH: 451
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-09-920-171-18

Query Match 100.0%; Score 623; DB 9; Length 451;
Best Local Similarity 100.0%; Pred. No. 8.8e-51; Indels 0; Gaps 0;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 EVQLVESGGGLVQPGGSLRLSCAASGYSITSGYSNNWIRQAPGKGLWVASIKYSGETKY 60
DB 1 EVQLVESGGGLVQPGGSLRLSCAASGYSITSGYSNNWIRQAPGKGLWVASIKYSGETKY 60
QY 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAIVYICARGSHYFGHHFAVMGQG 114
DB 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAIVYICARGSHYFGHHFAVMGQG 114

RESULT 14
US-09-792-938-2
; Sequence 2, Application US/09792938
; Publication No. US20030166868A1
; GENERAL INFORMATION:
; APPLICANT: Esche Ekinaduese Idusogie et al.
; TITLE OF INVENTION: Polypeptide Variants
; FILE REFERENCE: P1266R1
; CURRENT APPLICATION NUMBER: US/09/792,938
; CURRENT FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 09/282,505
; PRIOR FILING DATE: 1999-03-31
; NUMBER OF SEQ ID NOS: 2
; SEQ ID NO 2
; LENGTH: 451
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: Artificial Sequence
; LOCATION: 1-451
; OTHER INFORMATION: Sequence is completely synthesized
US-09-792-938-2

Query Match 100.0%; Score 623; DB 10; Length 451;
Best Local Similarity 100.0%; Pred. No. 8.8e-51; Indels 0; Gaps 0;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 EVQLVESGGGLVQPGGSLRLSCAASGYSITSGYSNNWIRQAPGKGLWVASIKYSGETKY 60
DB 1 EVQLVESGGGLVQPGGSLRLSCAASGYSITSGYSNNWIRQAPGKGLWVASIKYSGETKY 60
QY 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAIVYICARGSHYFGHHFAVMGQG 114
DB 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAIVYICARGSHYFGHHFAVMGQG 114

RESULT 15
US-10-113-996-18
; Sequence 18, Application US/10113996
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies
; FILE REFERENCE: P1123C3US
; CURRENT APPLICATION NUMBER: US/10/113,996
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 18
; LENGTH: 451
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-10-113-996-18

Query Match 100.0%; Score 623; DB 14; Length 451;
Best Local Similarity 100.0%; Pred. No. 8.8e-51; Indels 0; Gaps 0;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 EVQLVESGGGLVQPGGSLRLSCAASGYSITSGYSNNWIRQAPGKGLWVASIKYSGETKY 60
DB 1 EVQLVESGGGLVQPGGSLRLSCAASGYSITSGYSNNWIRQAPGKGLWVASIKYSGETKY 60
QY 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAIVYICARGSHYFGHHFAVMGQG 114
DB 61 NPSVKGRITISRDDSKNTFYLMNSLRADTAIVYICARGSHYFGHHFAVMGQG 114

Search completed: June 7, 2005, 10:16:26
Job time : 31.0205 secs

This Page Blank (uspto)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: June 7, 2005, 09:53:33 ; Search time 30.0205 Seconds

(without alignment)
1367.836 Million cell updates/sec

Title: US-10-791-619-8

Perfect score: 596

Sequence: 1 DIQLTQSPSSLSASVGDVRT.....SHEDPTFGQTKVEIKRTV 114

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1599520 seqs, 360203123 residues

Total number of hits satisfying chosen parameters: 1599520

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US11A_PUBCOMB.pep.*
- 19: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep.*
- 20: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 21: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	596	100.0	114	9	US-09-920-171-8
2	596	100.0	114	14	US-10-113-996-8
3	596	100.0	114	16	US-10-791-619-8
4	596	100.0	218	9	US-09-920-171-15
5	596	100.0	218	9	US-09-920-171-17
6	596	100.0	218	9	US-09-920-171-19
7	596	100.0	218	9	US-09-920-171-24
8	596	100.0	218	14	US-10-113-996-15
9	596	100.0	218	14	US-10-113-996-17
10	596	100.0	218	14	US-10-113-996-19
11	596	100.0	218	14	US-10-113-996-24
12	596	100.0	218	16	US-10-813-483-2

13	596	100.0	218	16	US-10-791-619-15	Sequence 15, Appl
14	596	100.0	218	16	US-10-791-619-17	Sequence 17, Appl
15	596	100.0	218	16	US-10-791-619-19	Sequence 19, Appl
16	596	100.0	218	16	US-10-791-619-24	Sequence 24, Appl
17	594	99.7	218	10	US-09-792-938-1	Sequence 1, Appl
18	594	99.7	218	14	US-10-292-869-1	Sequence 1, Appl
19	594	99.7	218	16	US-10-835-642-1	Sequence 1, Appl
20	594	99.7	218	16	US-10-757-863-1	Sequence 1, Appl
21	587	98.5	248	9	US-09-920-171-22	Sequence 22, Appl
22	587	98.5	248	9	US-09-920-171-23	Sequence 23, Appl
23	587	98.5	248	14	US-10-113-996-22	Sequence 22, Appl
24	587	98.5	248	14	US-10-113-996-23	Sequence 23, Appl
25	587	98.5	248	16	US-10-791-619-22	Sequence 22, Appl
26	587	98.5	248	16	US-10-791-619-23	Sequence 23, Appl
27	575	96.5	114	9	US-09-920-171-9	Sequence 9, Appl
28	575	96.5	114	14	US-10-113-996-9	Sequence 9, Appl
29	575	96.5	114	16	US-10-791-619-9	Sequence 9, Appl
30	570	95.6	114	9	US-09-920-171-10	Sequence 10, Appl
31	570	95.6	114	14	US-10-113-996-10	Sequence 10, Appl
32	570	95.6	114	16	US-10-791-619-10	Sequence 10, Appl
33	570	95.6	218	9	US-09-802-077-9	Sequence 9, Appl
34	570	95.6	218	9	US-09-802-096-9	Sequence 9, Appl
35	570	95.6	218	9	US-09-920-171-13	Sequence 13, Appl
36	570	95.6	218	10	US-09-925-179-9	Sequence 9, Appl
37	570	95.6	218	14	US-10-113-996-13	Sequence 13, Appl
38	570	95.6	218	16	US-10-813-483-1	Sequence 1, Appl
39	570	95.6	218	16	US-10-791-619-13	Sequence 13, Appl
40	570	95.6	669	16	US-10-764-428-21	Sequence 21, Appl
41	570	95.6	669	16	US-10-764-428-23	Sequence 23, Appl
42	556	93.3	111	9	US-09-920-171-6	Sequence 6, Appl
43	556	93.3	111	14	US-10-113-996-6	Sequence 6, Appl
44	556	93.3	111	16	US-10-791-619-6	Sequence 6, Appl
45	555	93.1	218	10	US-09-925-179-67	Sequence 67, Appl

ALIGNMENTS

RESULT 1
US-09-920-171-8
; Sequence 8, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 8
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Light chain sequence derived from MAE11
US-09-920-171-8

Query Match	100.0%;	Score 596;	DB 9;	Length 114;
Best Local Similarity	100.0%;	Pred. No. 2.3e-42;	Mismatches 0;	Indels 0;
Matches 114;	Conservative 0;			
QY	1	DIQLTQSPSSLSASVGDVRTITCRASKPVDGSDSYLNWYQKPGKAPKLLIYAASYLE 60		
Db	1	DIQLTQSPSSLSASVGDVRTITCRASKPVDGSDSYLNWYQKPGKAPKLLIYAASYLE 60		
QY	61	GVPSRFGSGSGTDTLTLLISSLPEDFATYCCQSHEDPTFGQTKVEIKRTV 114		

Db 61 GVPFRFSGSGTDTLTITSSLPQEDFATYCCQSHEDPYTFGGTKVEIKRTV 114
|||||

RESULT 2

US-10-113-996-8
; Sequence 8, Application US/10113996
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/10/113,996
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 8
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Light chain sequence derived from MAE11

US-10-113-996-8
Query Match 100.0%; Score 596; DB 14; Length 114;
Best Local Similarity 100.0%; Pred. No. 2.3e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIQLTQSPSSLSASVGDRTTTCRASKPVDGSDSYLNWYQQKPGKAPKLLIYAASYLES 60
Db 1 DIQLTQSPSSLSASVGDRTTTCRASKPVDGSDSYLNWYQQKPGKAPKLLIYAASYLES 60

QY 61 GVPFRFSGSGTDTLTITSSLPQEDFATYCCQSHEDPYTFGGTKVEIKRTV 114
Db 61 GVPFRFSGSGTDTLTITSSLPQEDFATYCCQSHEDPYTFGGTKVEIKRTV 114
|||||

RESULT 3

US-10-791-619-8
; Sequence 8, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 8
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial
; NAME/KEY: Artificial
; LOCATION: 1-114
; OTHER INFORMATION: Light chain sequence derived from MAE11

US-10-791-619-8
Query Match 100.0%; Score 596; DB 16; Length 114;
Best Local Similarity 100.0%; Pred. No. 2.3e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIQLTQSPSSLSASVGDRTTTCRASKPVDGSDSYLNWYQQKPGKAPKLLIYAASYLES 60
Db 1 DIQLTQSPSSLSASVGDRTTTCRASKPVDGSDSYLNWYQQKPGKAPKLLIYAASYLES 60
QY 61 GVPFRFSGSGTDTLTITSSLPQEDFATYCCQSHEDPYTFGGTKVEIKRTV 114
Db 61 GVPFRFSGSGTDTLTITSSLPQEDFATYCCQSHEDPYTFGGTKVEIKRTV 114
|||||

RESULT 4

US-09-920-171-15
; Sequence 15, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 15
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Light chain sequence derived from MAE11

US-09-920-171-15

Query Match 100.0%; Score 596; DB 9; Length 218;
Best Local Similarity 100.0%; Pred. No. 4.5e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIQLTQSPSSLSASVGDRTTTCRASKPVDGSDSYLNWYQQKPGKAPKLLIYAASYLES 60
Db 1 DIQLTQSPSSLSASVGDRTTTCRASKPVDGSDSYLNWYQQKPGKAPKLLIYAASYLES 60
QY 61 GVPFRFSGSGTDTLTITSSLPQEDFATYCCQSHEDPYTFGGTKVEIKRTV 114
Db 61 GVPFRFSGSGTDTLTITSSLPQEDFATYCCQSHEDPYTFGGTKVEIKRTV 114
|||||

RESULT 5

US-09-920-171-17
; Sequence 17, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 17
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Light chain sequence derived from MAE11

```

RESULT 9
US-10-113-996-17
; Sequence 17, Application US/10113996
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardiueu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies
; FILE REFERENCE: P1123C3US
; CURRENT APPLICATION NUMBER: US/10/113,996

```

```
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 17
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Light chain sequence derived from MAE11
US-10-113-996-17

Query Match          100.0%; Score 596; DB 14; Length 218;
Best Local Similarity 100.0%; Pred. No. 4.5e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DIQLTQSPSSLSASVGDRTVITCRASKPVDGSDSYLNWYQKPGKAPKLLIYAASYLE 60
Db 1 DIQLTQSPSSLSASVGDRTVITCRASKPVDGSDSYLNWYQKPGKAPKLLIYAASYLE 60

Qy 61 GVPFRFSGSGGTDFTLTITSSLPQEDFATYYCQSHEDPYTFGGQTKVEIKRTV 114
Db 61 GVPFRFSGSGGTDFTLTITSSLPQEDFATYYCQSHEDPYTFGGQTKVEIKRTV 114

RESULT 10
US-10-113-996-19
; Sequence 19, Application US/10113996
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies
; CURRENT APPLICATION NUMBER: US/10/113,996
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 19
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Light chain F(ab) sequence derived from MAE11
US-10-113-996-19

Query Match          100.0%; Score 596; DB 14; Length 218;
Best Local Similarity 100.0%; Pred. No. 4.5e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DIQLTQSPSSLSASVGDRTVITCRASKPVDGSDSYLNWYQKPGKAPKLLIYAASYLE 60
Db 1 DIQLTQSPSSLSASVGDRTVITCRASKPVDGSDSYLNWYQKPGKAPKLLIYAASYLE 60

Qy 61 GVPFRFSGSGGTDFTLTITSSLPQEDFATYYCQSHEDPYTFGGQTKVEIKRTV 114
Db 61 GVPFRFSGSGGTDFTLTITSSLPQEDFATYYCQSHEDPYTFGGQTKVEIKRTV 114

RESULT 11
US-10-113-996-24
; Sequence 24, Application US/10113996
```

```
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies
; FILE REFERENCE: P1123C3US
; CURRENT APPLICATION NUMBER: US/10/113,996
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 24
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Light chain F(ab)'2 sequence derived from MAE11
US-10-113-996-24

Query Match          100.0%; Score 596; DB 14; Length 218;
Best Local Similarity 100.0%; Pred. No. 4.5e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DIQLTQSPSSLSASVGDRTVITCRASKPVDGSDSYLNWYQKPGKAPKLLIYAASYLE 60
Db 1 DIQLTQSPSSLSASVGDRTVITCRASKPVDGSDSYLNWYQKPGKAPKLLIYAASYLE 60

Qy 61 GVPFRFSGSGGTDFTLTITSSLPQEDFATYYCQSHEDPYTFGGQTKVEIKRTV 114
Db 61 GVPFRFSGSGGTDFTLTITSSLPQEDFATYYCQSHEDPYTFGGQTKVEIKRTV 114

RESULT 12
US-10-813-483-2
; Sequence 2, Application US/10813483
; Publication No. US20040197324A1
; GENERAL INFORMATION:
; APPLICANT: LIU, JUN
; APPLICANT: SHIRE, STEVEN J.
; TITLE OF INVENTION: High Concentration Antibody and Protein Formulations
; FILE REFERENCE: P2026R1-US
; CURRENT APPLICATION NUMBER: US/10/813,483
; CURRENT FILING DATE: 2004-03-29
; PRIOR APPLICATION NUMBER: US 60/460,659
; PRIOR FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 6
; SEQ ID NO 2
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: E26, light chain
US-10-813-483-2

Query Match          100.0%; Score 596; DB 16; Length 218;
Best Local Similarity 100.0%; Pred. No. 4.5e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DIQLTQSPSSLSASVGDRTVITCRASKPVDGSDSYLNWYQKPGKAPKLLIYAASYLE 60
Db 1 DIQLTQSPSSLSASVGDRTVITCRASKPVDGSDSYLNWYQKPGKAPKLLIYAASYLE 60

Qy 61 GVPFRFSGSGGTDFTLTITSSLPQEDFATYYCQSHEDPYTFGGQTKVEIKRTV 114
Db 61 GVPFRFSGSGGTDFTLTITSSLPQEDFATYYCQSHEDPYTFGGQTKVEIKRTV 114
```


RESULT 13
US-10-791-619-15
; Sequence 15, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; PRIOR FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 15
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Artificial
; NAME/KEY: Artificial
; LOCATION: 1-218
; OTHER INFORMATION: Light chain sequence derived from MAE11
US-10-791-619-15
Query Match 100.0%; Score 596; DB 16; Length 218;
Best Local Similarity 100.0%; Pred. No. 4.5e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DIQLTQSPSSLSASVGDRTTITCRASKPVDGSDSYLNWYQKPGKAPKLLIYAASYLE 60
DB 1 DIQLTQSPSSLSASVGDRTTITCRASKPVDGSDSYLNWYQKPGKAPKLLIYAASYLE 60
QY 61 GVPSRFSGSGGTDFLTITSSLPEDFATYYCQSHEDPYTFGQGTKVEIKRTV 114
DB 61 GVPSRFSGSGGTDFLTITSSLPEDFATYYCQSHEDPYTFGQGTKVEIKRTV 114
RESULT 14
US-10-791-619-17
; Sequence 17, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; PRIOR FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 17
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Artificial
; NAME/KEY: Artificial
; LOCATION: 1-218
; OTHER INFORMATION: Light chain sequence derived from MAE11
US-10-791-619-17
Query Match 100.0%; Score 596; DB 16; Length 218;
Best Local Similarity 100.0%; Pred. No. 4.5e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DIQLTQSPSSLSASVGDRTTITCRASKPVDGSDSYLNWYQKPGKAPKLLIYAASYLE 60
DB 1 DIQLTQSPSSLSASVGDRTTITCRASKPVDGSDSYLNWYQKPGKAPKLLIYAASYLE 60
QY 61 GVPSRFSGSGGTDFLTITSSLPEDFATYYCQSHEDPYTFGQGTKVEIKRTV 114
DB 61 GVPSRFSGSGGTDFLTITSSLPEDFATYYCQSHEDPYTFGQGTKVEIKRTV 114

Db 61 GVPSRFSGSGGTDFLTITSSLPEDFATYYCQSHEDPYTFGQGTKVEIKRTV 114
RESULT 15
US-10-791-619-19
; Sequence 19, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 19
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Artificial
; NAME/KEY: Artificial
; LOCATION: 1-218
; OTHER INFORMATION: Light chain P(ab) sequence derived from MAE11
US-10-791-619-19
Query Match 100.0%; Score 596; DB 16; Length 218;
Best Local Similarity 100.0%; Pred. No. 4.5e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DIQLTQSPSSLSASVGDRTTITCRASKPVDGSDSYLNWYQKPGKAPKLLIYAASYLE 60
DB 1 DIQLTQSPSSLSASVGDRTTITCRASKPVDGSDSYLNWYQKPGKAPKLLIYAASYLE 60
QY 61 GVPSRFSGSGGTDFLTITSSLPEDFATYYCQSHEDPYTFGQGTKVEIKRTV 114
DB 61 GVPSRFSGSGGTDFLTITSSLPEDFATYYCQSHEDPYTFGQGTKVEIKRTV 114
Search completed: June 7, 2005, 10:16:25
Job time : 31.0205 secs

This Page Blank (uspto)